

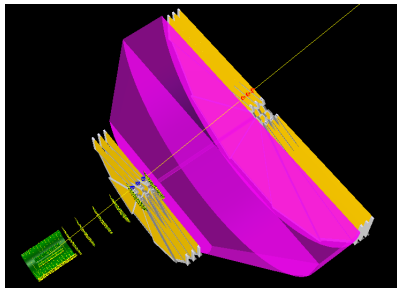
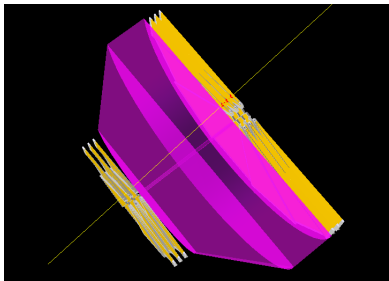
EicRoot Progress

Florida Tech

Matt Bomberger

October 8, 2018

Geometrical Setup

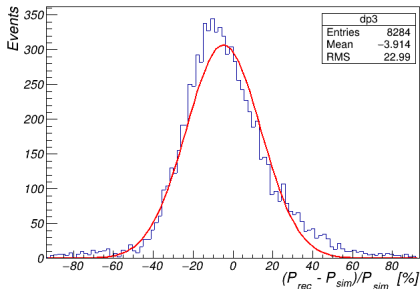


Geometrical Setup – Description

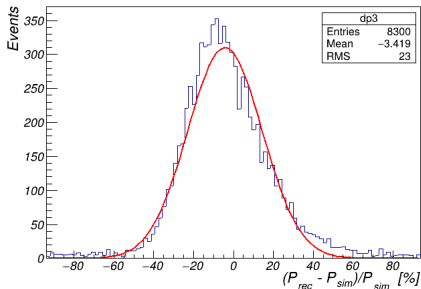
- First iteration performed with only GEMs and RICH volume
- Second iteration included Si trackers
- GEM foil Cu reduced from 5 μm \rightarrow 200 nm to emulate Cr GEM

No Si Trackers Included – 3 Tesla B field

Momentum Resolution - Standard GEMs



Momentum Resolution - Chromium GEMs

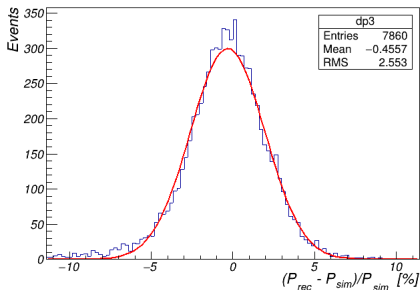


No Si Trackers – Description

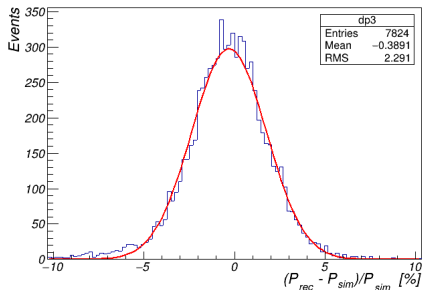
- Momentum resolution plots for Std and Cr-GEM foils with no Si trackers
- Std foil dimensions: 5 μm Cu, 50 μm Kapton
- Std foil dimensions: 200 nm Cu, 50 μm Kapton

Si Trackers Included – 3 Tesla B Field

Momentum Resolution - Standard GEMs



Momentum Resolution - Chromium GEMs



Si Trackers – Description

- Momentum resolution plots for Std and Cr-GEM foils with Si trackers
- Std foil dimensions: 5 μm Cu, 50 μm Kapton
- Std foil dimensions: 200 nm Cu, 50 μm Kapton